Water Quality Improvements for the KBCCIP

The Water Quality improvements are common to all Alternatives. Water quality improvements associated with the proposed action include the construction of new collection and conveyance infrastructure leading to the water treatment and conveyance facilities identified in the proposed Kings Beach Watershed Improvement Project (WIP). Water quality elements that will be installed include, but are not limited to, the following items:

- Constructing grass-lined swales where they can be supported to convey runoff along the Right Of Way (ROW) and promote infiltration;
- Constructing rock lined channels to convey water along the ROW and promote infiltration;
- Installing basins to collect and retain runoff;
- Constructing infiltration galleries to retain runoff; and
- Installing media filters, or advanced treatment technologies, to treat runoff from KBCC and Brockway Vista Avenue.

On the streets upstream of SR 28, curbs and gutters will be installed as best management practices (BMP) to help collect and direct runoff from the potential on-street parking sites, as well as runoff flowing into the CCIP from areas upstream of the CCIP. These improvements would serve to mitigate increased runoff due to the creation of new hard coverage from the parking lots. Currently, there are no collection and conveyance features on these upstream streets to adequately direct the upstream runoff through the CCIP area; instead, the runoff flows directly through the CCIP and into Lake Tahoe. With the installation of the curbs and gutters as part of the CCIP, this runoff will be directed to collection basins, vaults, and media filters that will be upgraded and installed as part of the CCIP, and water would not flow untreated into Lake Tahoe, as under current conditions. In addition, improvements associated with the proposed WIP will further increase water treatment capacity.

At the potential off-site parking lots, no culverting or conveyance improvements would be constructed to direct runoff from these lots off site. Instead, runoff would be entirely contained onsite with the incorporation of BMPs (i.e., underground infiltration beds) into the parking lot design. The off-site parking lots would be designed to maintain runoff from a 20-year, 1-hour storm flow entirely on-site, while erosion control measures to protect water quality would also be incorporated into the design. The water collection and infiltration features incorporated into the off-site parking lots are designed to mitigate runoff associated with the additional hard coverage from the parking lots. And, because water would be contained entirely onsite, the off-site lots would not worsen water quality in the region.

Along SR 28, curbs and gutters will be installed to help direct runoff through the CCIP, while storm drain inlets and interceptors will be constructed to direct collected runoff to the collection basins, vaults, and media filters that will be upgraded and installed as part of the

CCIP. The proposed vaults and media filters located outside the brown boundary on Figure 2-2 are not associated with the CCIP. Instead, they are considered water quality improvements that will be implemented as part of the proposed WIP, which will further increase water treatment capacity. Vaults and media filters installed beneath Placer County roads (Coon Street and Secline Street/Brockway Vista Avenue) will be located entirely within the roadway ROW. Construction activities, including equipment staging and parking must occur entirely within the ROW, and no temporary construction easements will be obtained to allow construction activities/staging outside of the ROW. In addition, the vault and media filter proposed at Secline Street may be moved to Brockway Vista Avenue if conditions prohibit the placement of the facility at Secline Street.

The capacity of upstream facilities affected by the proposed action that tie into and interface with the proposed WIP improvements would be enlarged to allow for the collection and conveyance of both upstream flows and stormwater flows generated by the roadway itself. Facilities would be designed and constructed so that they can accommodate stormwater generated in the area as well as stormwater conveyed into the area from upstream. Drainage, collection, conveyance, and treatment improvements are among those included in the proposed WIP to improve water quality in the Kings Beach region as well as in the CCIP area.

All information gathered from pages 2-7 – 2-10 of the Draft Environmental Impact Report dated March 2007.